

FOR CONTRACT NO.: 11-251004

# INFORMATION HANDOUT

## MATERIALS INFORMATION

LEAD INVESTIGATION REPORT

ROUTE: 11-SD-8/805-3.2&7.2; 17.2&17.3

**Memorandum**

To: Debby Solfer  
Generalist  
Environmental Engineering

Date: July 18, 2001  
File: 11-SD-8 and 11-SD-805  
PM: 3.2 & 7.2 and 17.2 & 17  
EA: 251000

From: Joel Klothe  
Engineering Geologist  
Environmental Engineering

Subject: Hazardous Waste Review for Removal of Planting and Gore Paving on Route 8 and 805

A review of the potential for hazardous waste for the above referenced project has been performed. The project will involve removal of planting and paving of gore areas at various locations on Routes 8 and 805. Aerially deposited lead (ADL) is the potential hazardous material for this project. Other hazardous materials are not anticipated onsite.

Concentrations of ADL are not hazardous at the locations on Route 805. Special handling regarding ADL is not required, the soil may be handled as clean material with regard to ADL.

Excavation activities related to removal of planting and paving of gore areas on Route 8 are to follow standard specification (SSP) S5-740. According to SSP S5-740, a site specific Health and Safety Plan should be prepared to include measures that limit exposure of ADL affected soil to persons working onsite, and use of proper Personal Protective Equipment. Persons working with the soil containing hazardous concentrations of ADL should have training in accordance with Title 8 of the CCR 1532.1(e)(2)(B). These Title 8 CCR criteria are found in the office engineers' standard specifications.

Excavation for paving of the gore areas on Route 8 will invoke the Department of Toxic Substances Control (DTSC) lead variance. For the paving activities, the soil excavated to a depth of 0.4 meters is hazardous with regard to ADL concentrations. Standard specification 19-900 (type "Y" or "Z-2" material) will apply. Using type "Y" material, the excavated soil may be reused onsite by being placed beneath 0.3 meters of clean material or beneath pavement, at least 1.5 meters above the maximum groundwater level. Soil below 0.4 meters is "clean" regarding ADL concentrations. Using type "Z-2" material, if the soil excavated from the gore areas on Route 8 is relinquished to contractor, soil to 0.4 meters must be disposed as a hazardous waste at a Class I landfill. Soil below 0.4 meters is "clean" with regard to lead concentrations.

Results of the lead investigation for the DTSC variance invoking MVP locations can be found in a report entitled "Lead Investigation on Route 8 from the 8/15 Separation to 0.5 KM West of College Avenue Overcrossing in San Diego, California" and "Aerial Lead Investigation, Median Barrier Replacement on I-8, San Diego County, California". Total lead concentrations range from less than the laboratory detection limit to 1,550 milligrams per kilogram (mg/kg), with an average 80% Upper Confidence Level concentration of 120.1 in the upper 0.4 meters.

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For the locations that invoke the DTSC variance, the DTSC must be notified in writing by the Project Engineer at least 30 days before excavation of soil containing ADL, and should included in the RE Book. Please send a copy of the DTSC notification to Environmental Engineering, Hazardous Waste (Attention: Joel Kloth). Additionally, relocated soils with ADL must be shown on the project as-built plans. The Project Engineer must also have NPDES/Stormwater Compliance (Sayra Ramos, ext. 6430) notify the Regional Water Quality Control Board of the field activities in writing at least 30 days prior to initiating field activities. If you have questions please call extension 3682.

Joel Kloth, RG  
Environmental Geologist  
Environmental Engineering

cc: Jayne Dowda  
Sayra Ramos